

ABSTRACT OF THE DISCLOSURE

Methods, systems, and articles of manufacture consistent with the present invention provide for integrating intellectual capital through abstraction. A datatype is provided that has a metadata that describes a data and a reference to the data. The data is maintained  
5 separately from the datatype. The metadata includes a key that enables the datatype to be joined with other datatypes having the key in their respective metadata. The datatype is published and a subscriber receives the datatype responsive to subscribing to the datatype and receiving the other datatypes that have the key in their respective metadata.